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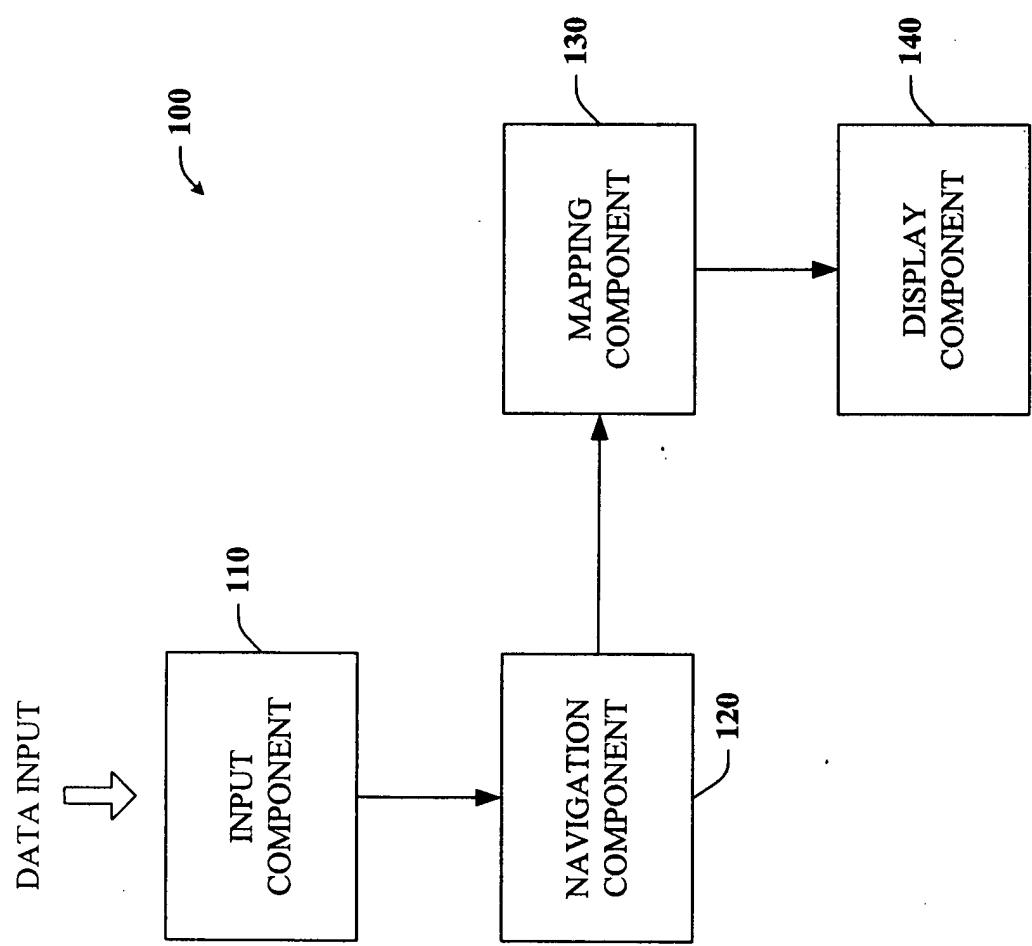


FIG. 1

FIG. 2

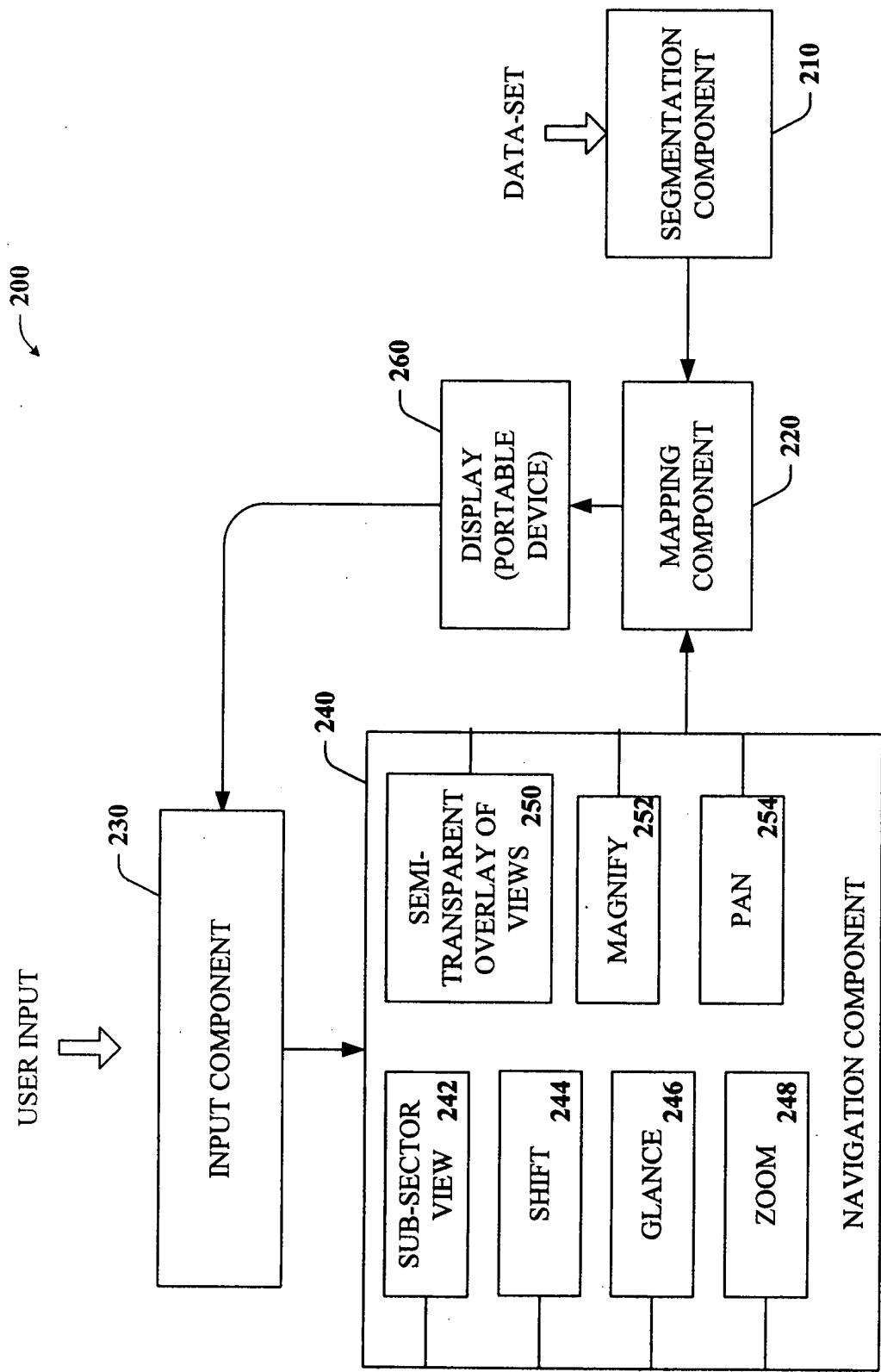
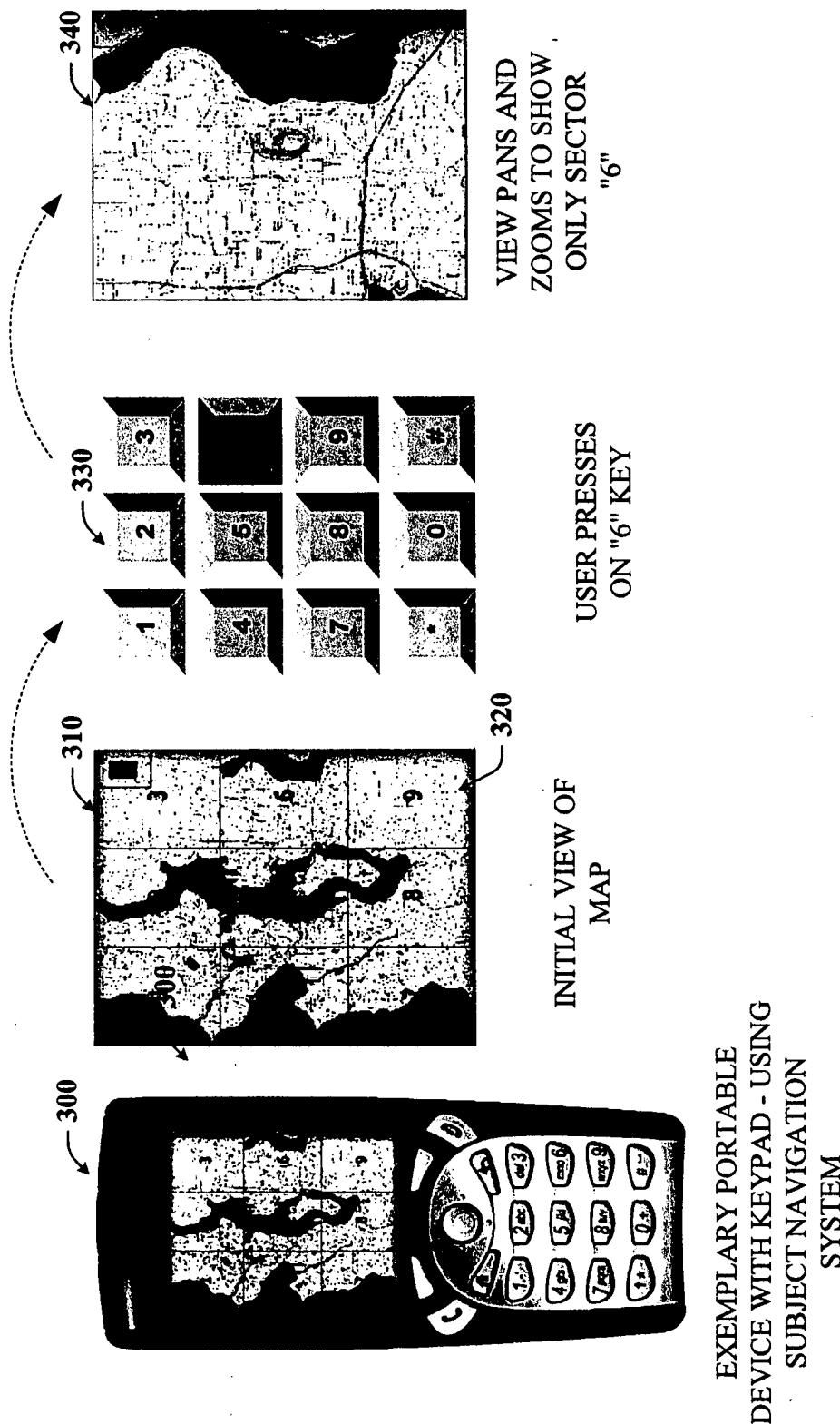
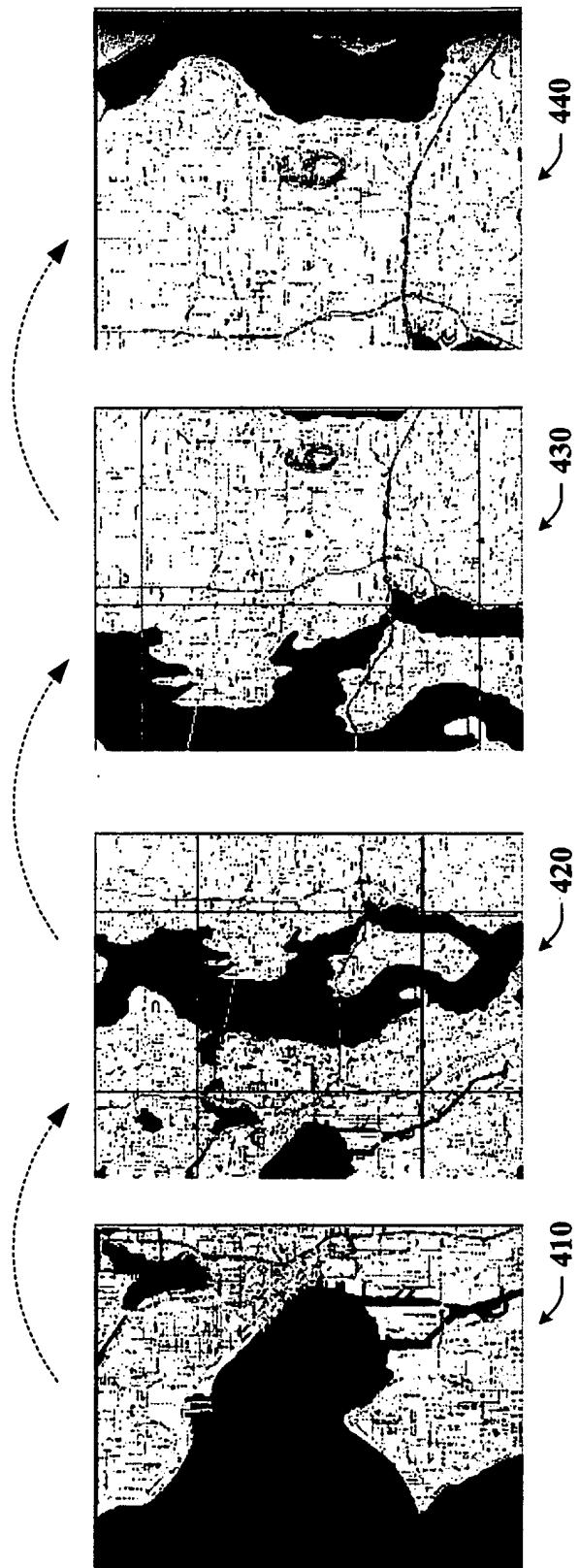


FIG. 3





VIEW ZOOMS OUT DURING PAN FROM ONE SIBLING VIEW (SECTOR 4) TO ANOTHER (SECTOR 6)

FIG. 4

FIG. 5

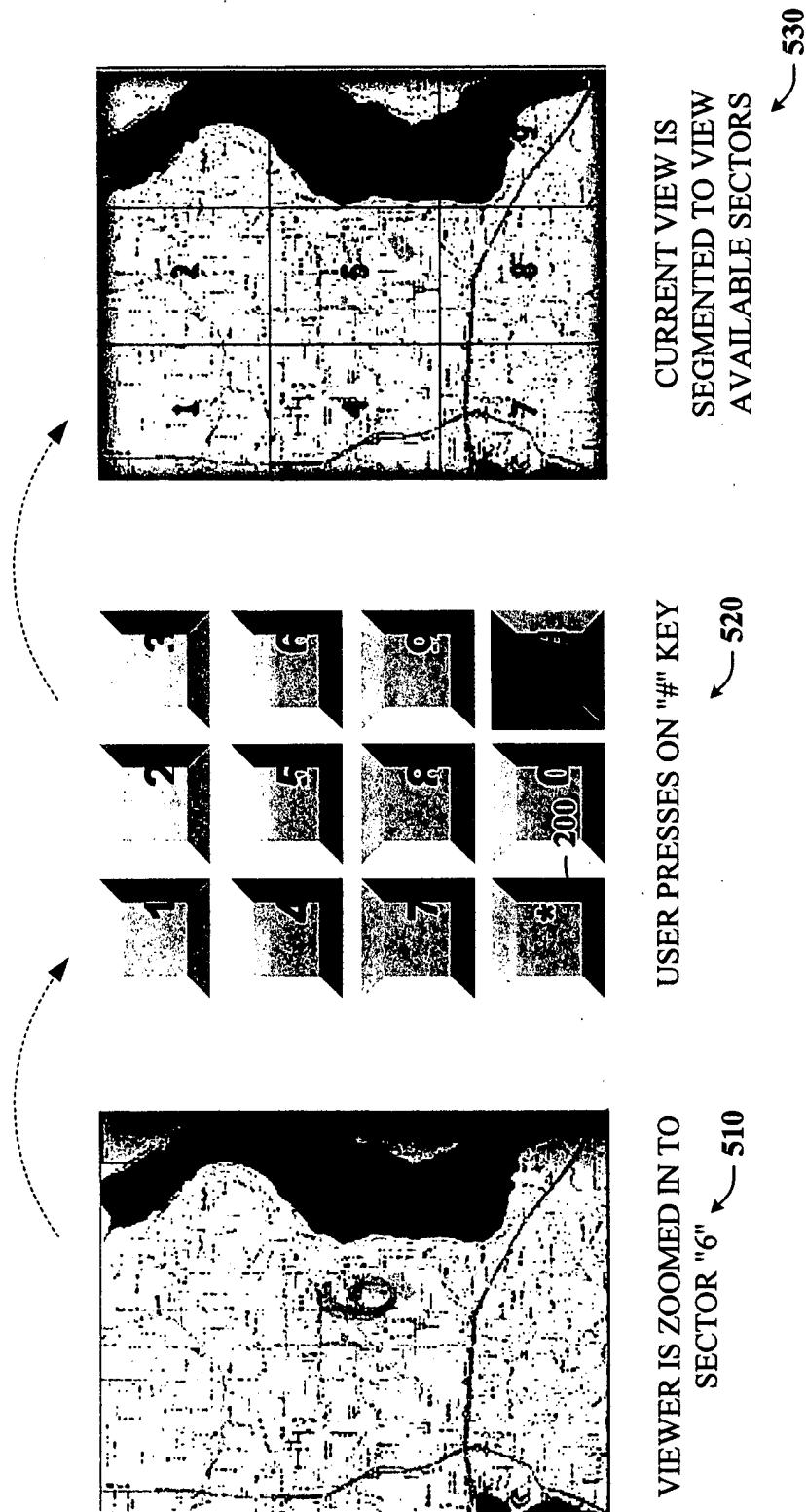
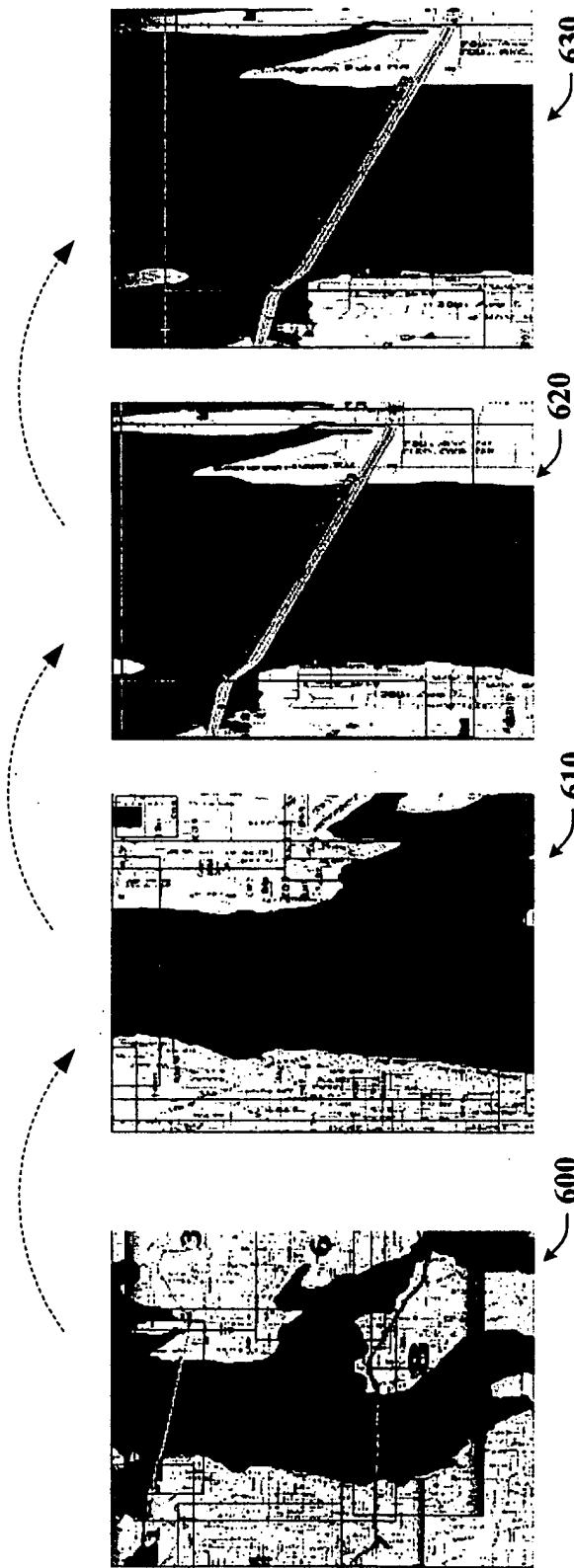


FIG. 6



THE CURRENT VIEW IS
DIVIDED INTO SECTORS
THAT ARE OPTIMIZED

DURING THE VIEW ANIMATION, THE MAP SHRINKS AND STRETCHES SO
THAT THE ASPECT OF THE SELECTED CHILD VIEW FILLS THE FRAME

RELATIONSHIP BETWEEN ZOOMED IN VIEW REGIONS, ENTIRE DATA-SET, AND DISPLAY DEVICE

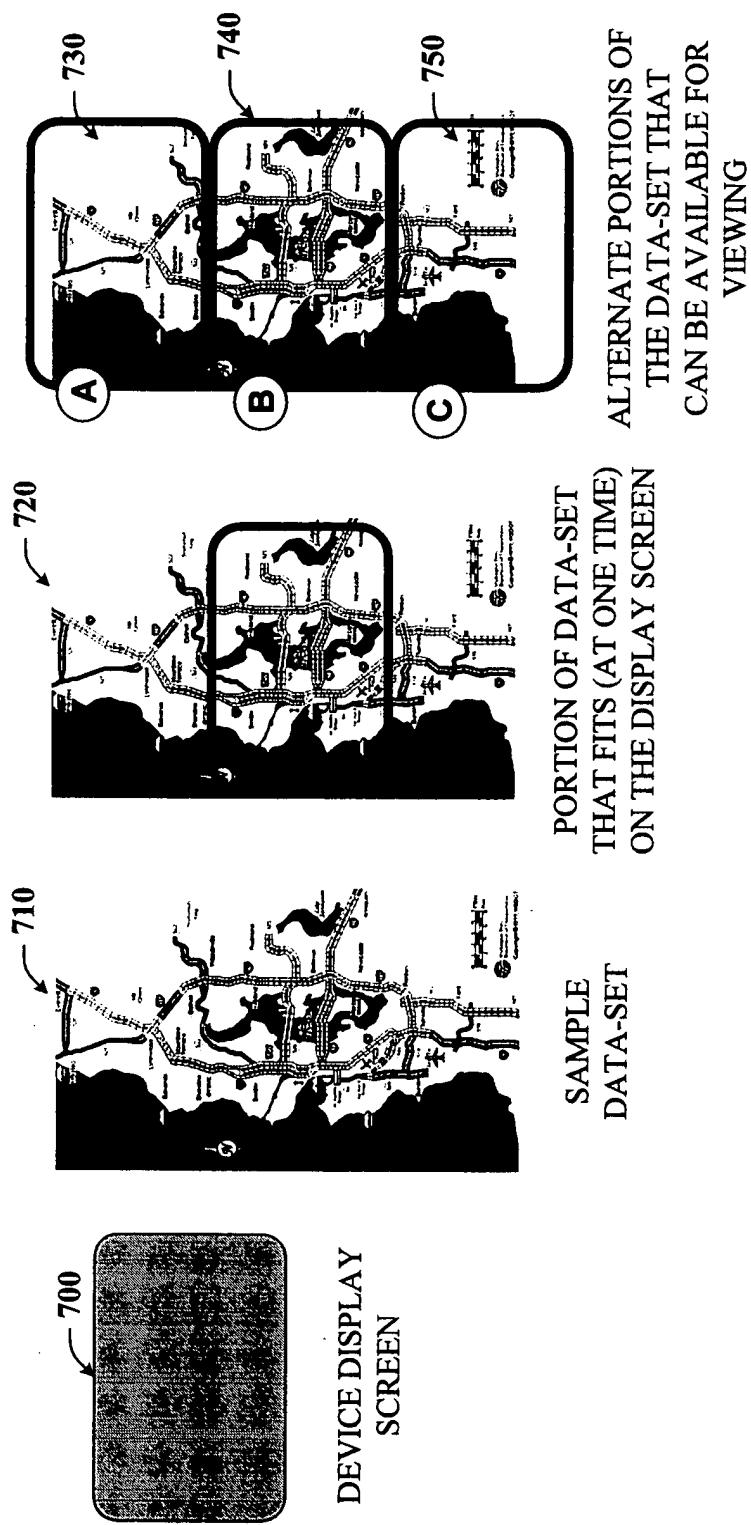
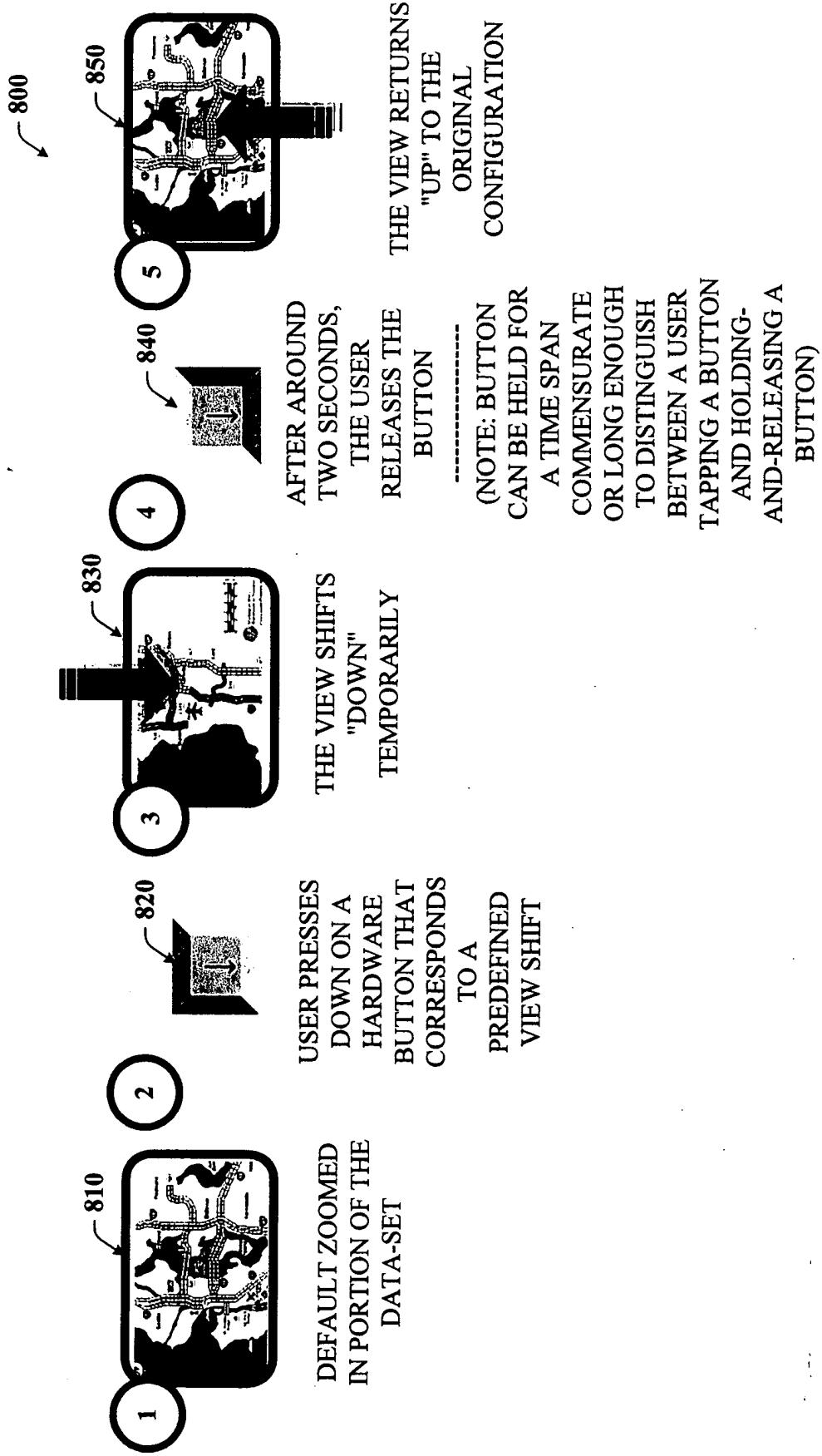


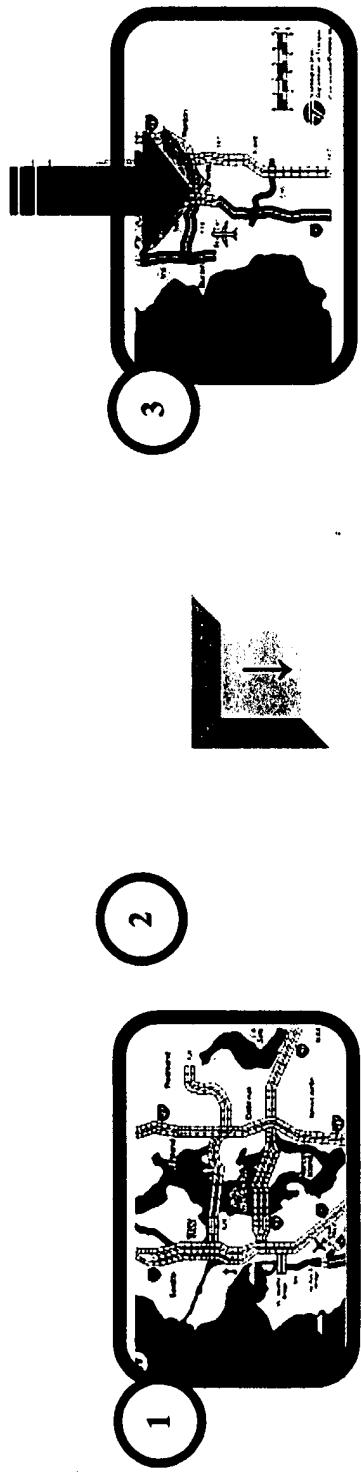
FIG. 7

SEQUENCE OF EVENTS THAT HAPPEN WHEN USER PURES-AND-HOLDS A BUTTON THAT IS ASSIGNED TO A PARTICULAR VIEW



8
FIG.

SEQUENCE OF EVENTS THAT HAPPEN WHEN USER TAPS A BUTTON THAT IS
ASSIGNED TO A PARTICULAR VIEW ↪ 900



DEFAULT ZOOMED IN
PORTION OF THE DATA-SET

USER TAPS (QUICKLY
PRESSES AND RELEASES) A
HARDWARE BUTTON THAT
CORRESPONDS TO A PRE-
DEFINED VIEW

THE VIEW SHIFTS
"DOWN" TO THE NEW
CONFIGURATION

FIG. 9

SEQUENCE OF EVENTS THAT HAPPEN WHEN USER TAPS A BUTTON AFTER VIEW HAS ALREADY SHIFTED - TO TOGGLE THE VIEW

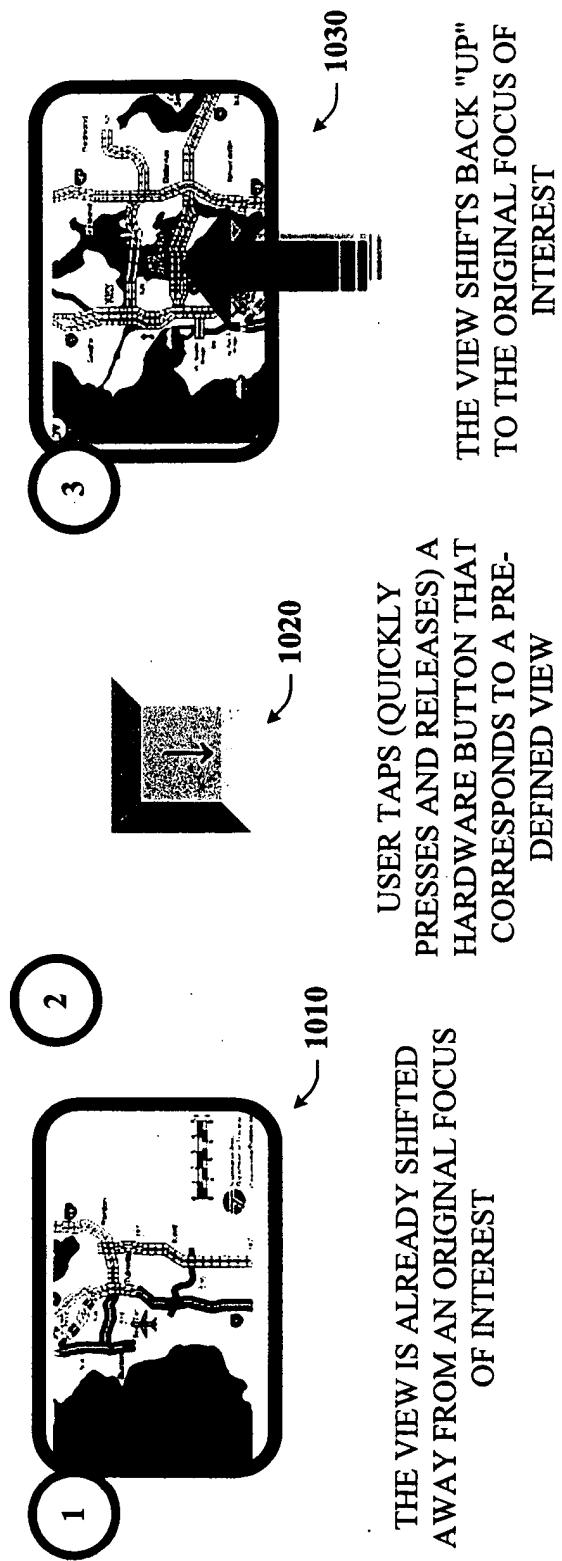
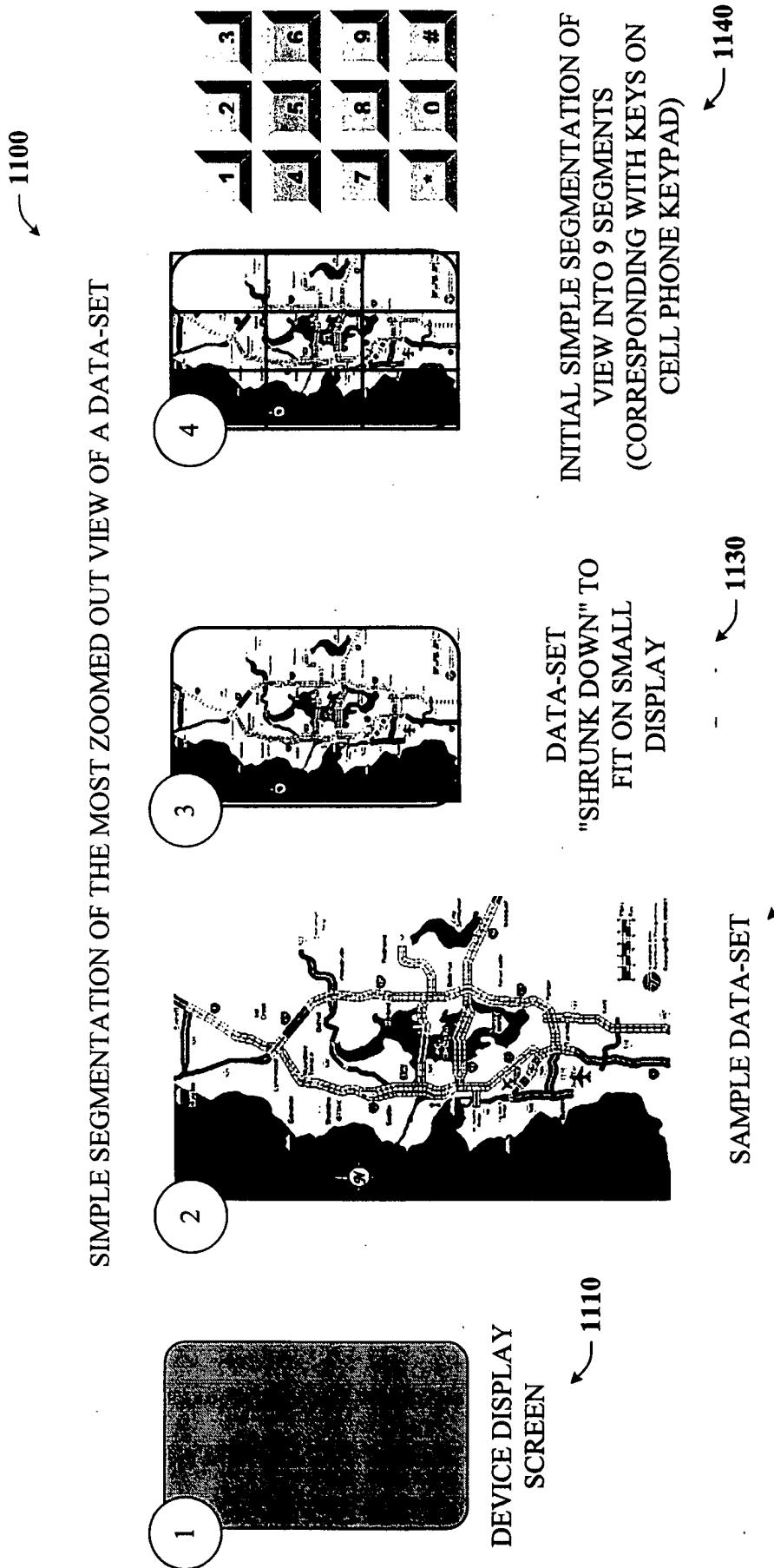
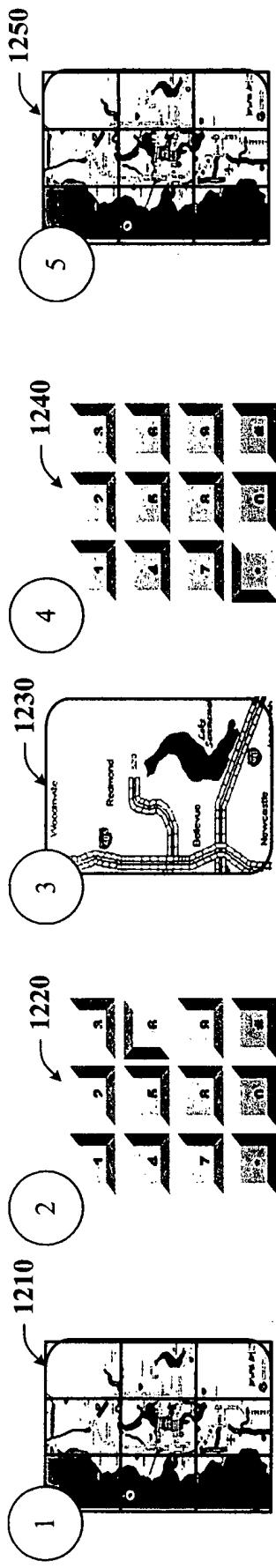


FIG. 10

FIG. 11



GENERAL INTERACTION FOR NAVIGATION AMONG VIEW-SUB-SEGMENTS AT A GIVEN ZOOM LEVEL

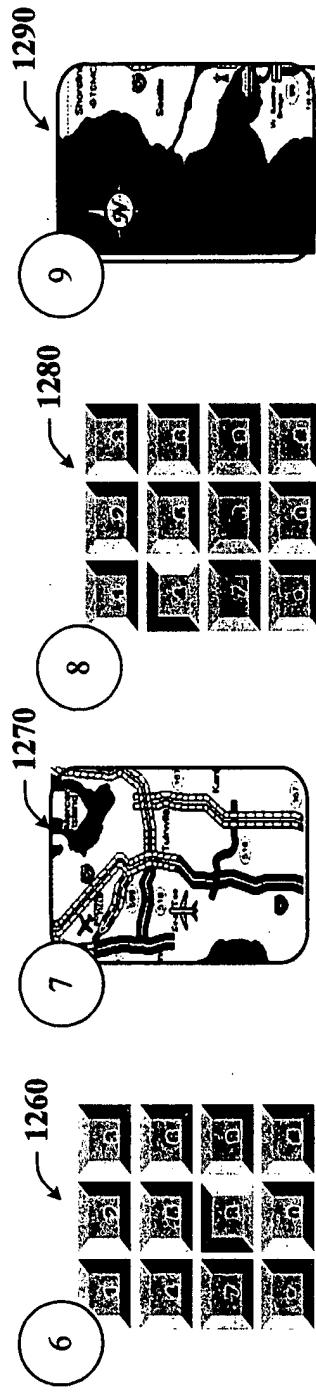


INITIAL
SEGMENTATION OF
VIEW

USER TAPS ON "6"
KEY ON KEYPAD OF
PORTABLE DEVICE

VIEW ZOOMS IN
TO JUST SHOW
VIEW-SUB-
SEGMENT THAT
CORRESPONDS
TO KEY "6"

THE VIEW ZOOMS
BACK OUT TO THE
INITIAL VIEW



USER TAPS ON "8"
KEY

VIEW ZOOMS IN TO
JUST SEGMENT "8"

VIEW STAYS AT
CURRENT ZOOM
LEVEL BUT SHIFTS TO
SHOW SEGMENT "4"

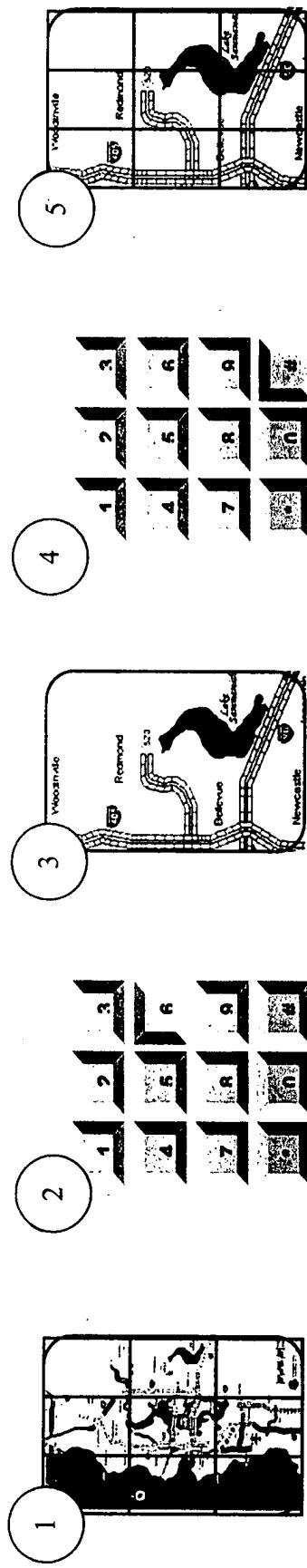
USER TAPS ON "*"
KEY WHICH IS
MAPPED TO
"ZOOM-OUT"

THE VIEW ZOOMS
BACK OUT TO THE
INITIAL VIEW

FIG. 12

← 1300

GENERAL INTERACTION FOR SWITCHING BETWEEN ZOOM LEVELS

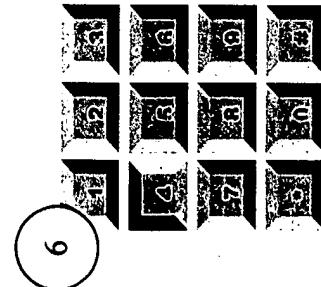


Initial
segmentation
of view

User taps on
“6” key

View zooms
into segment
“6”

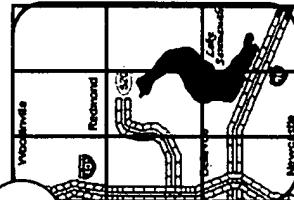
Current view
is segmented
into 9 sub-
segments



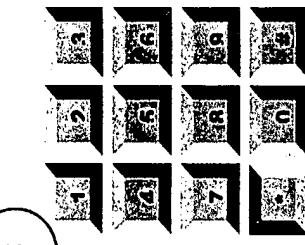
User taps on
“4” key

View zooms
into new sub-
segment “4”

User taps on
“#” key which
corresponds to
“zoom in”



The view
zooms back
out one level



User taps on
“*” key which
is mapped to
“zoom-out”

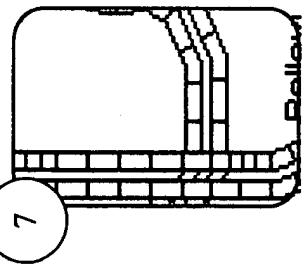


FIG. 13

DIFFERENT TYPES OF SEGMENTATION

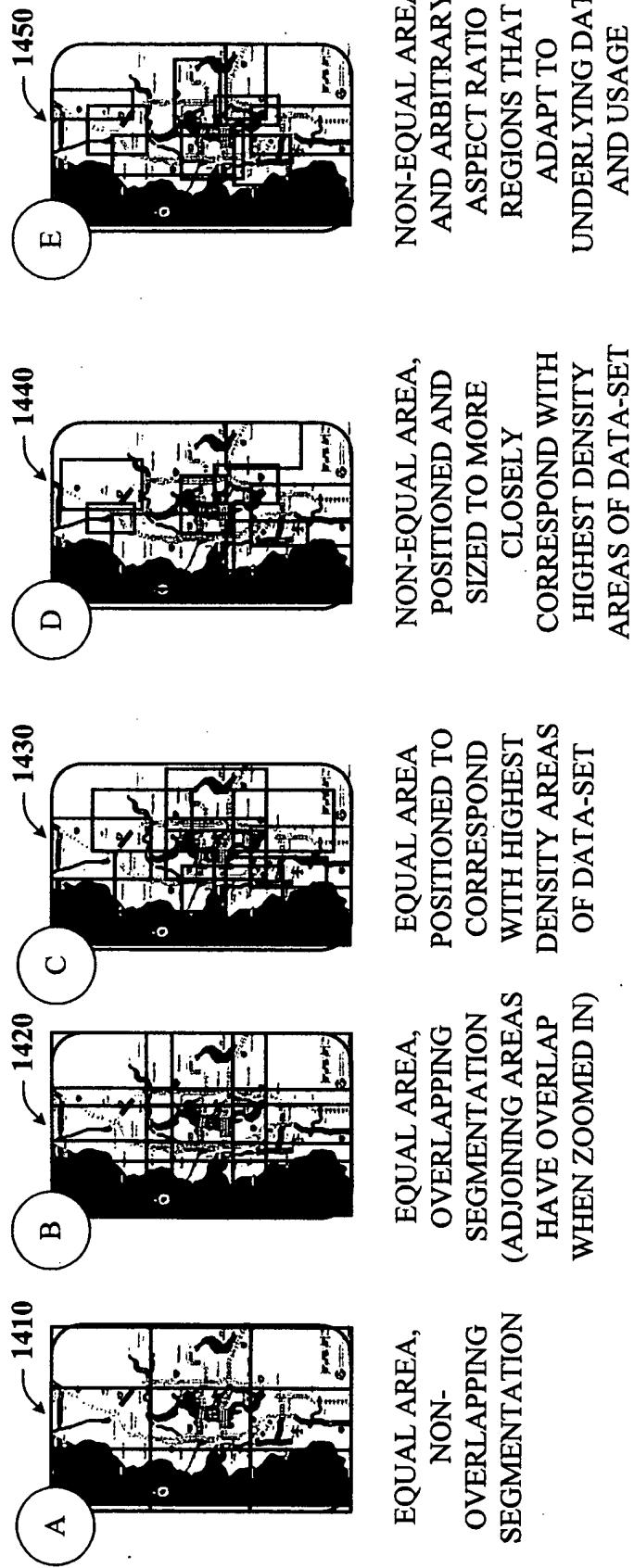
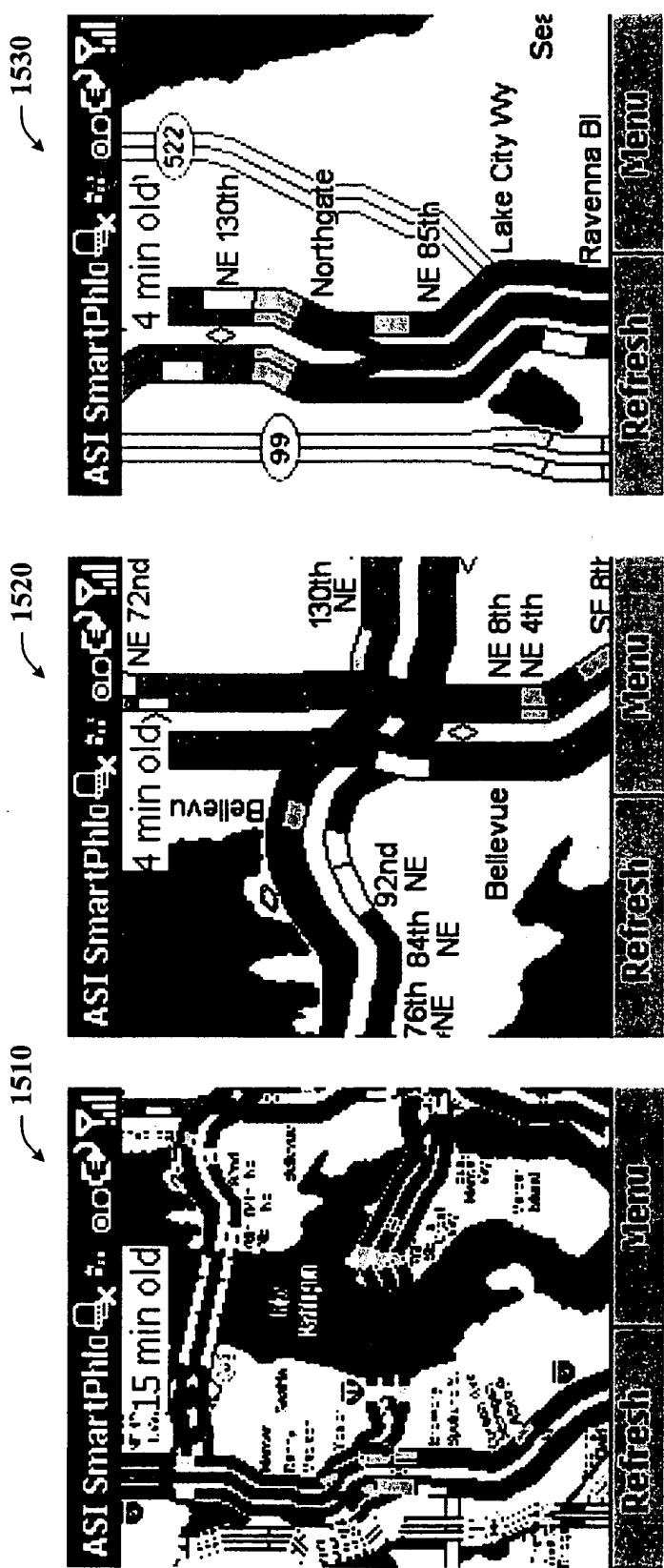


FIG. 14

FIG. 15



ZOOMED OUT VIEW OF THE
TRAFFIC MAP

TWO DIFFERENT VIEW SECTORS (AT THE SAME ZOOM LEVEL)

FIG. 17

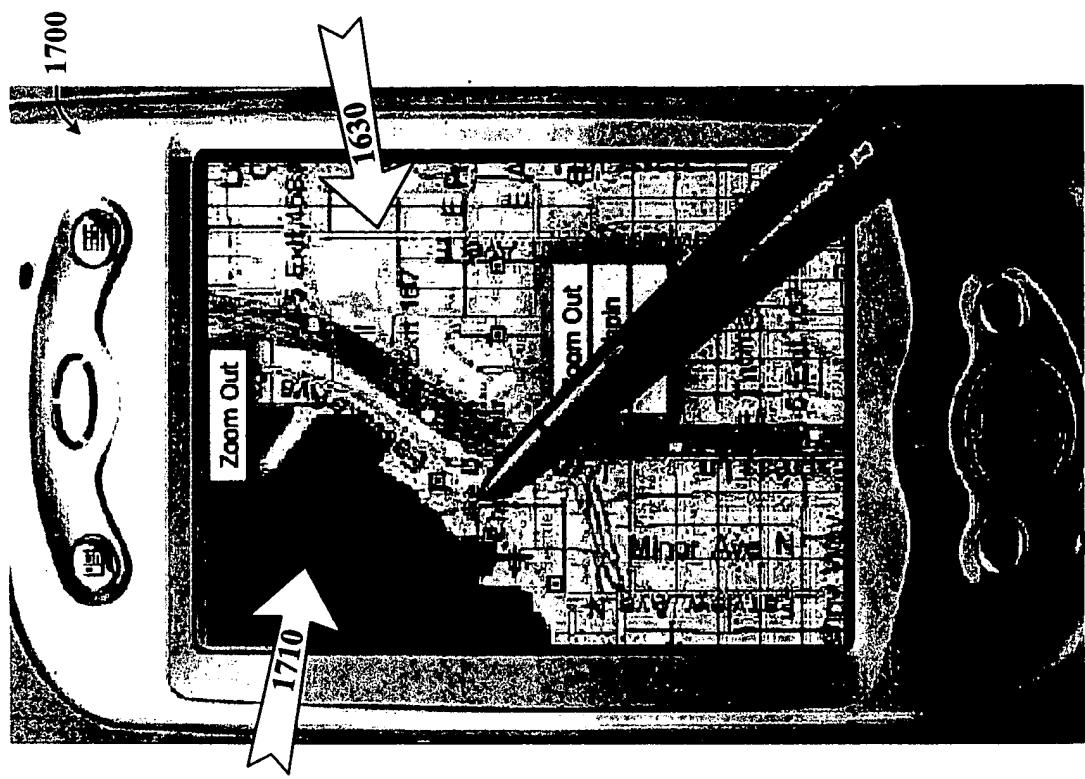


FIG. 16

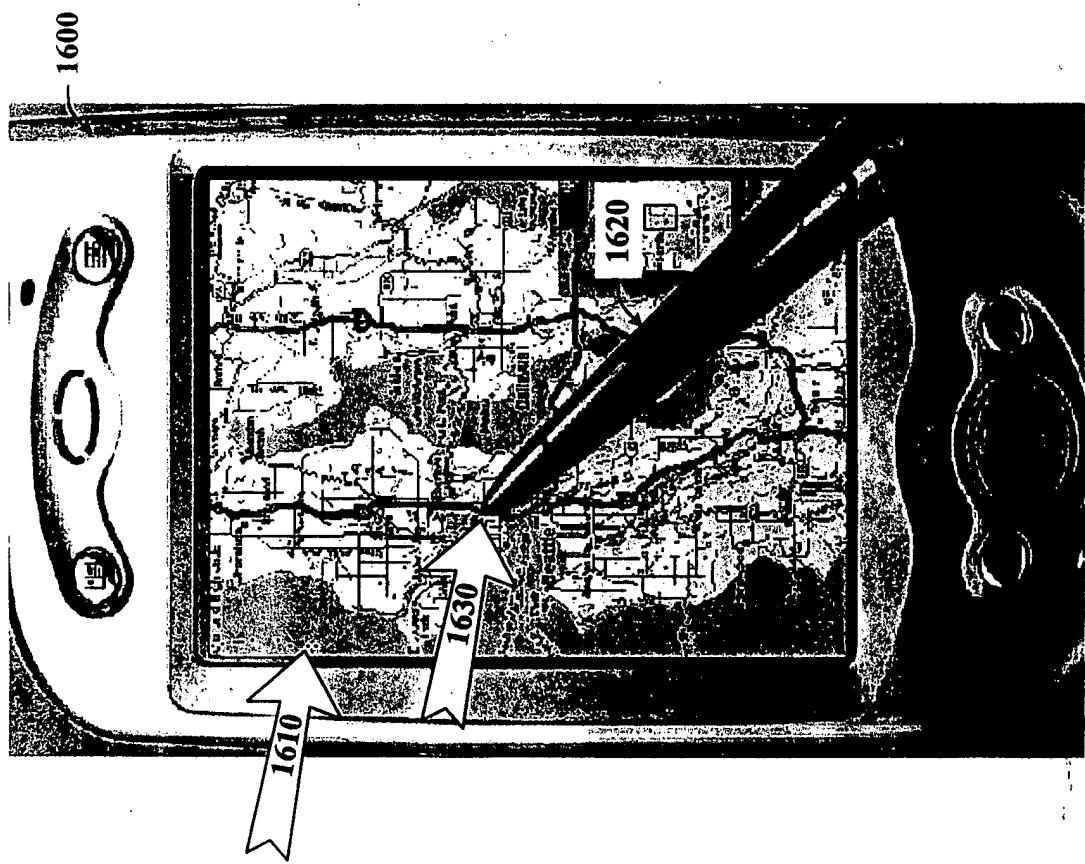


FIG. 19

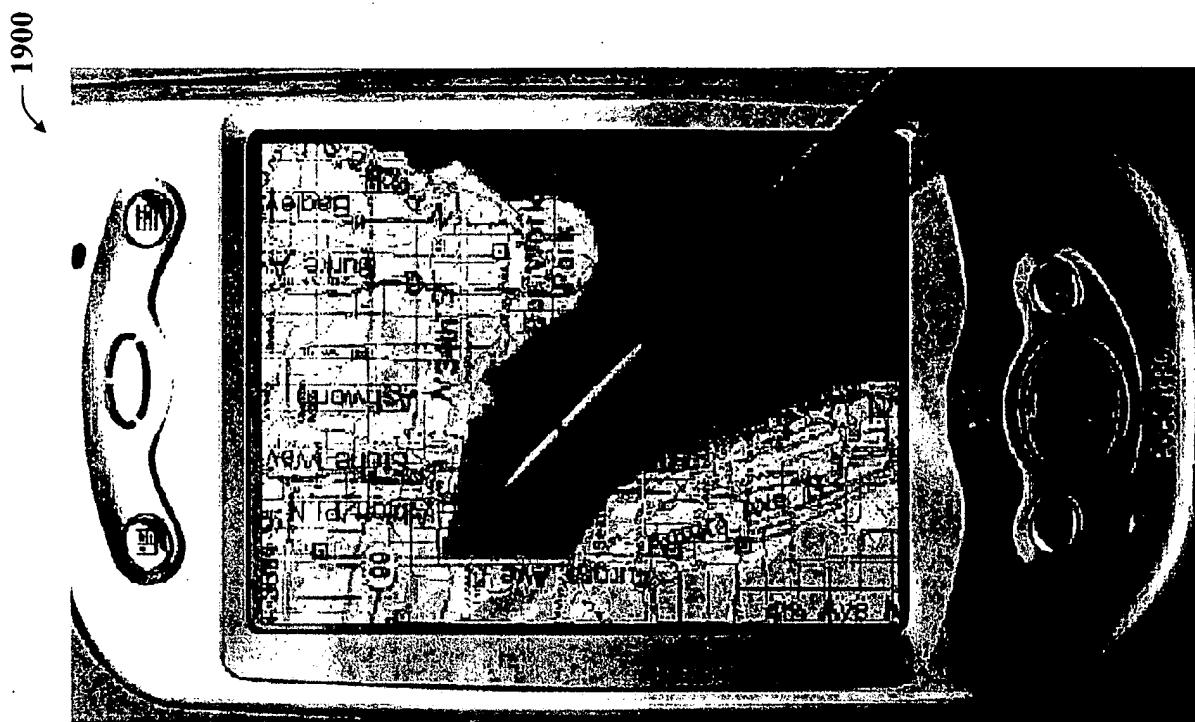


FIG. 18

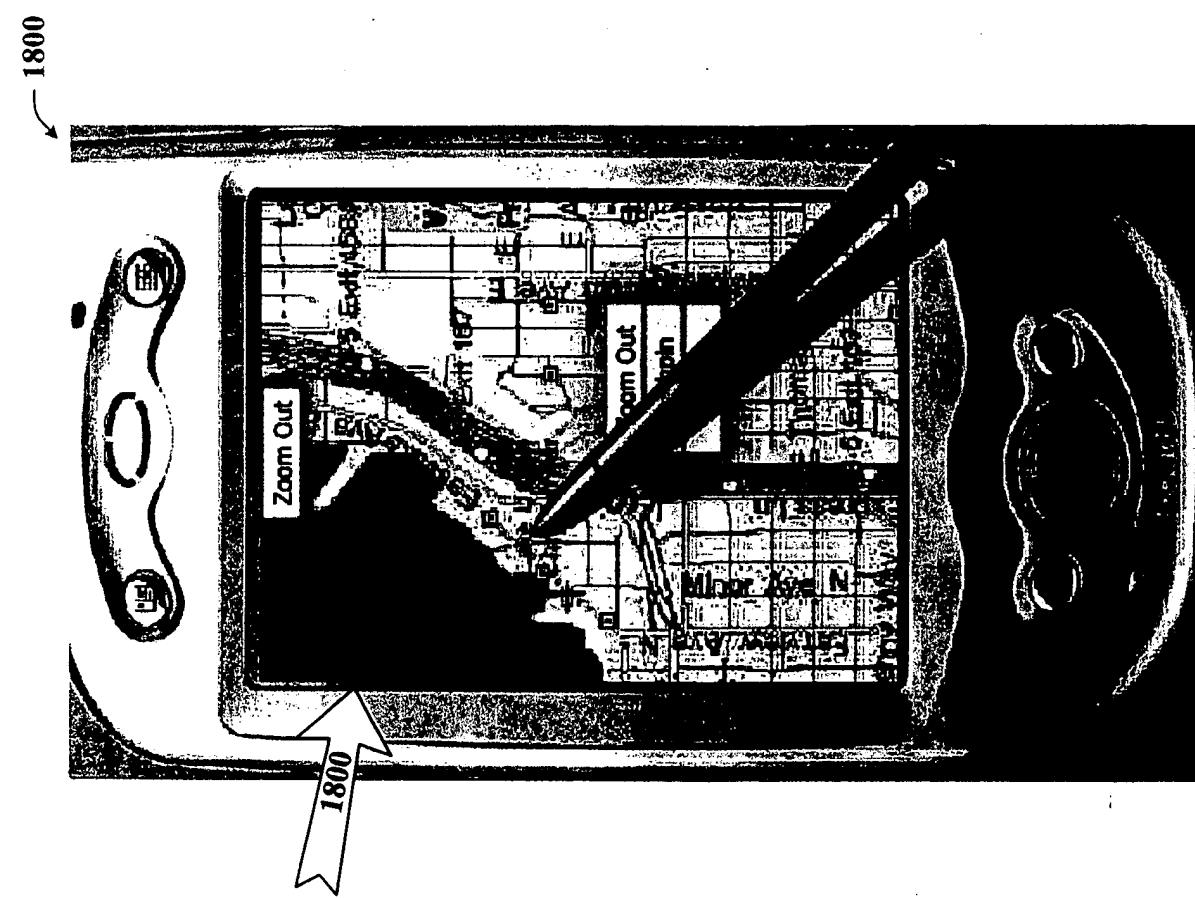


FIG. 21

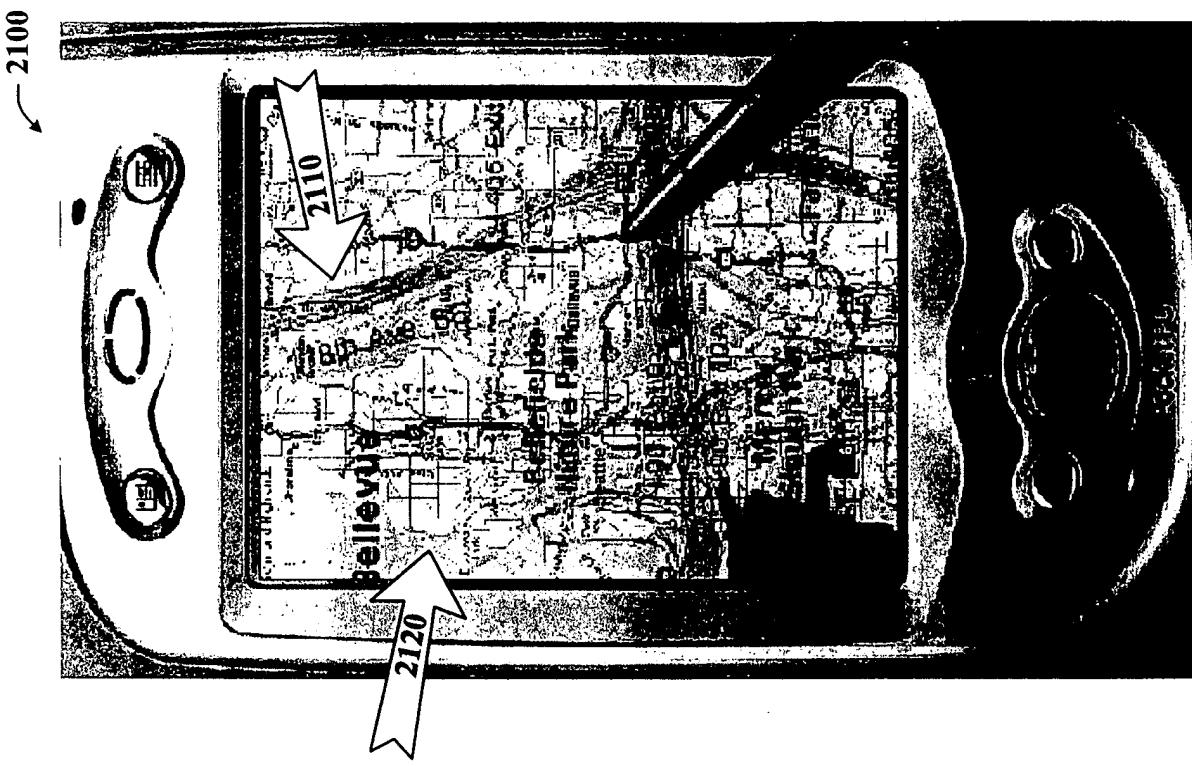


FIG. 20

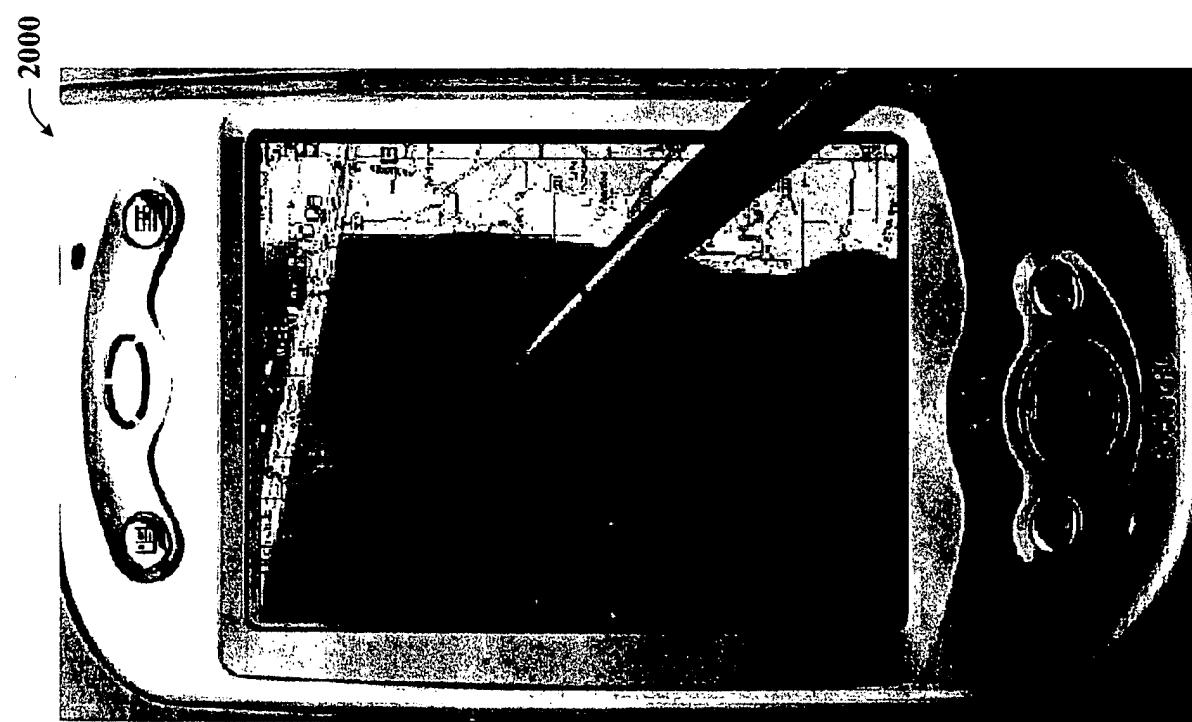


FIG. 23

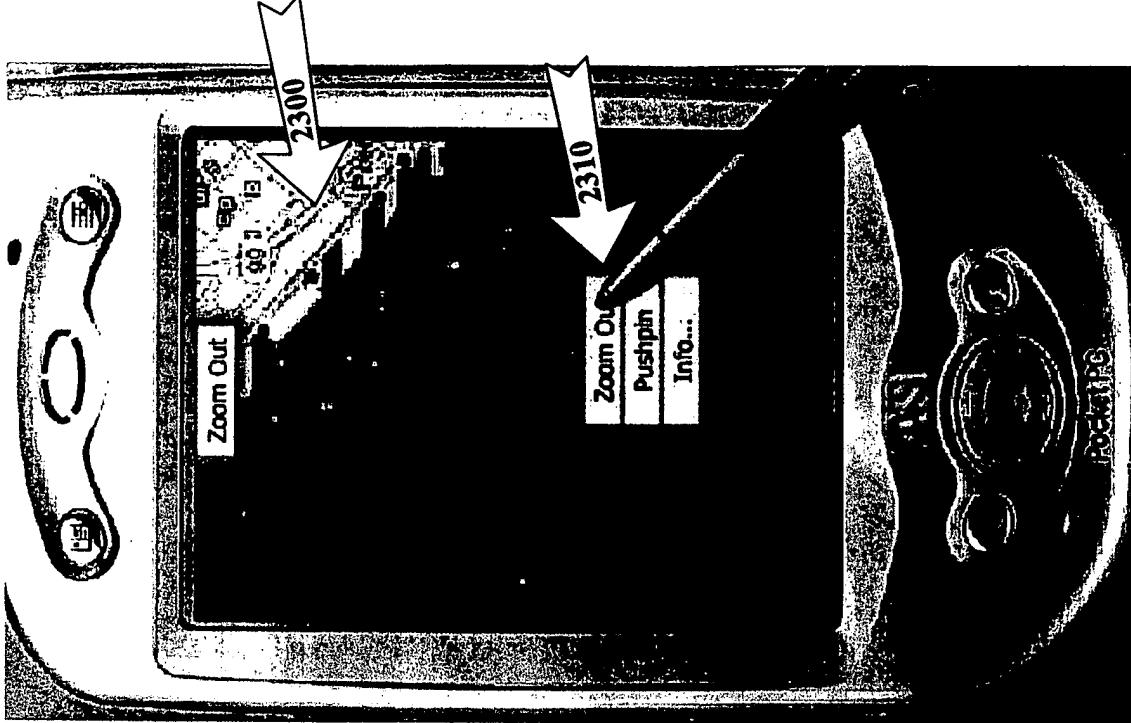
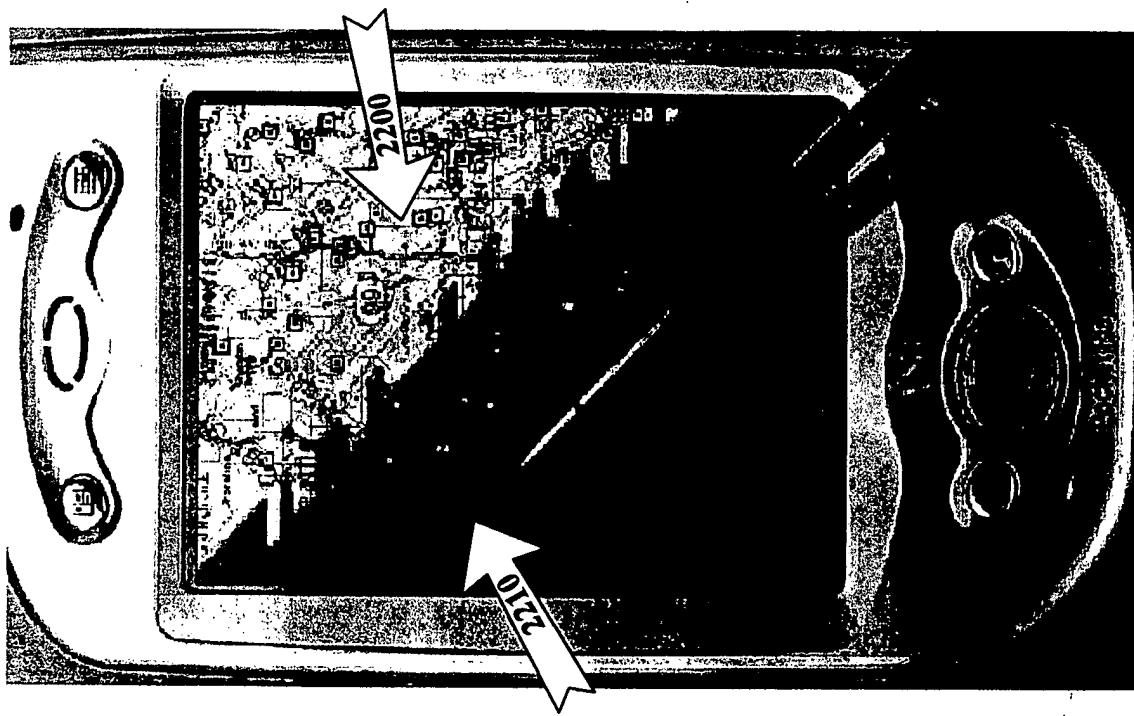


FIG. 22



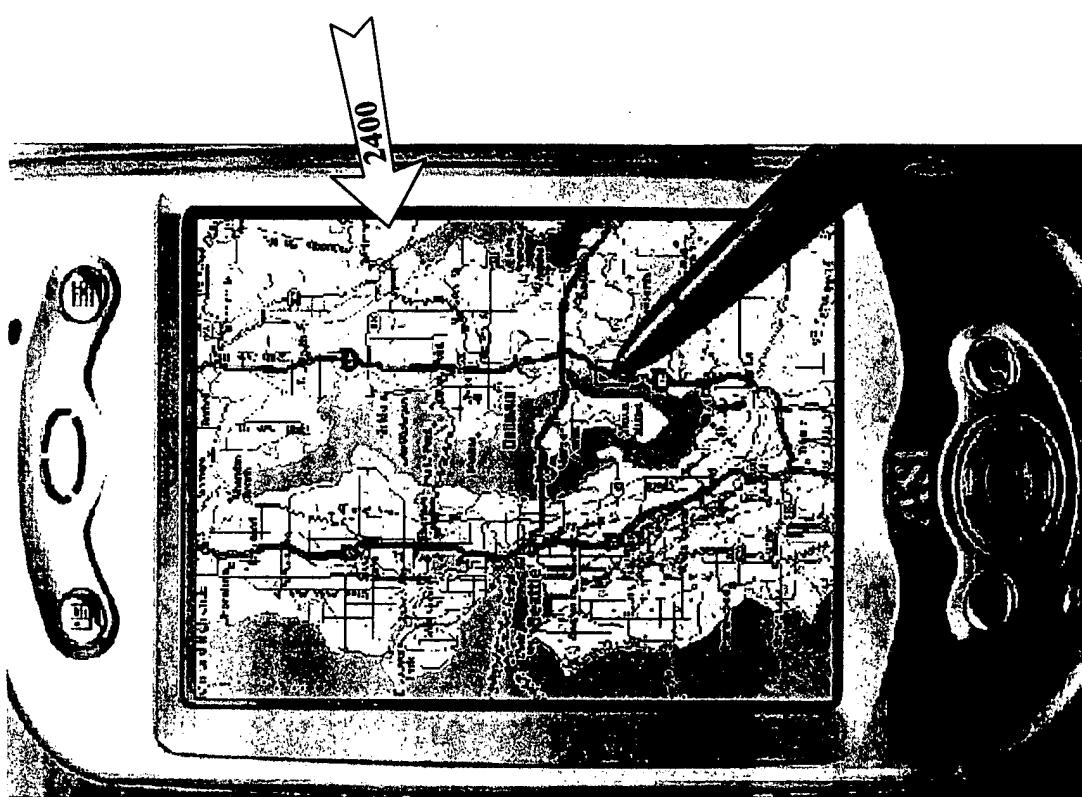


FIG. 24

FIG. 25

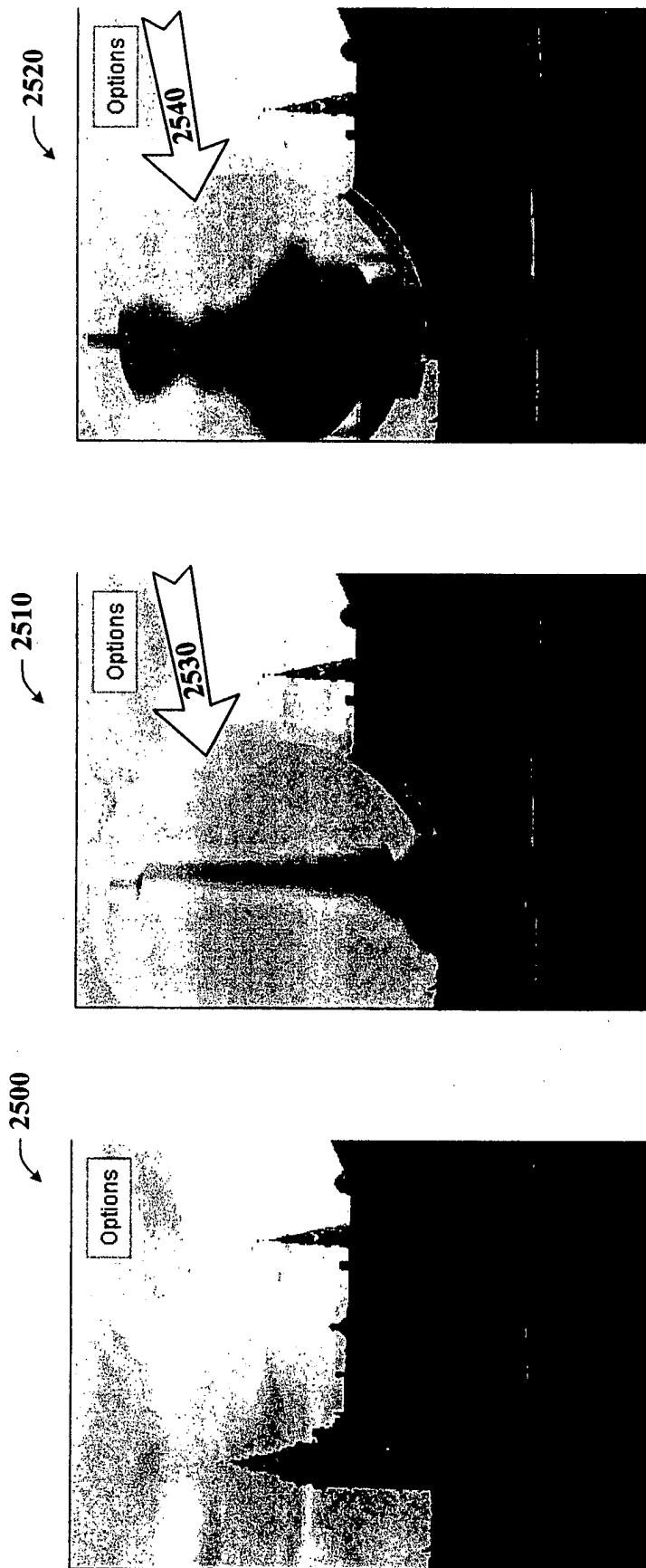


FIG. 26

2600

2610

2620

2630

Cancelled the a
lunch meeting

Mo	Tu	We	Th	Fr	Sa	Su
20	21	22	23	24	25	26
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

Mo	Tu	We	Th	Fr	Sa	Su
October 2022	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

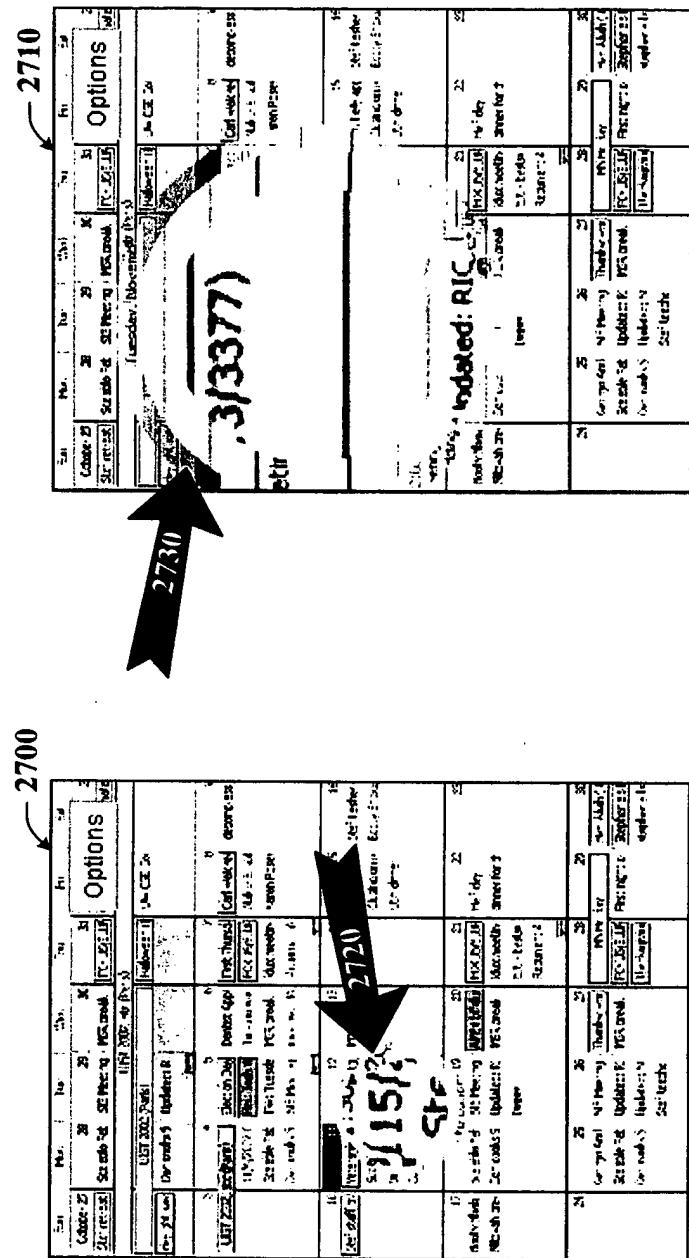


FIG. 27

FIG. 28



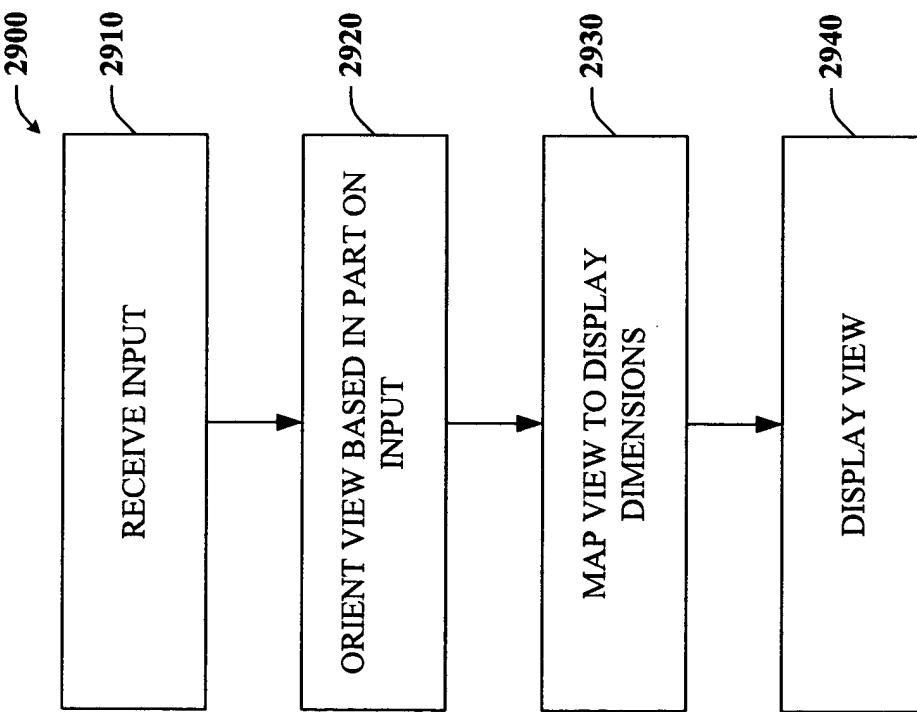
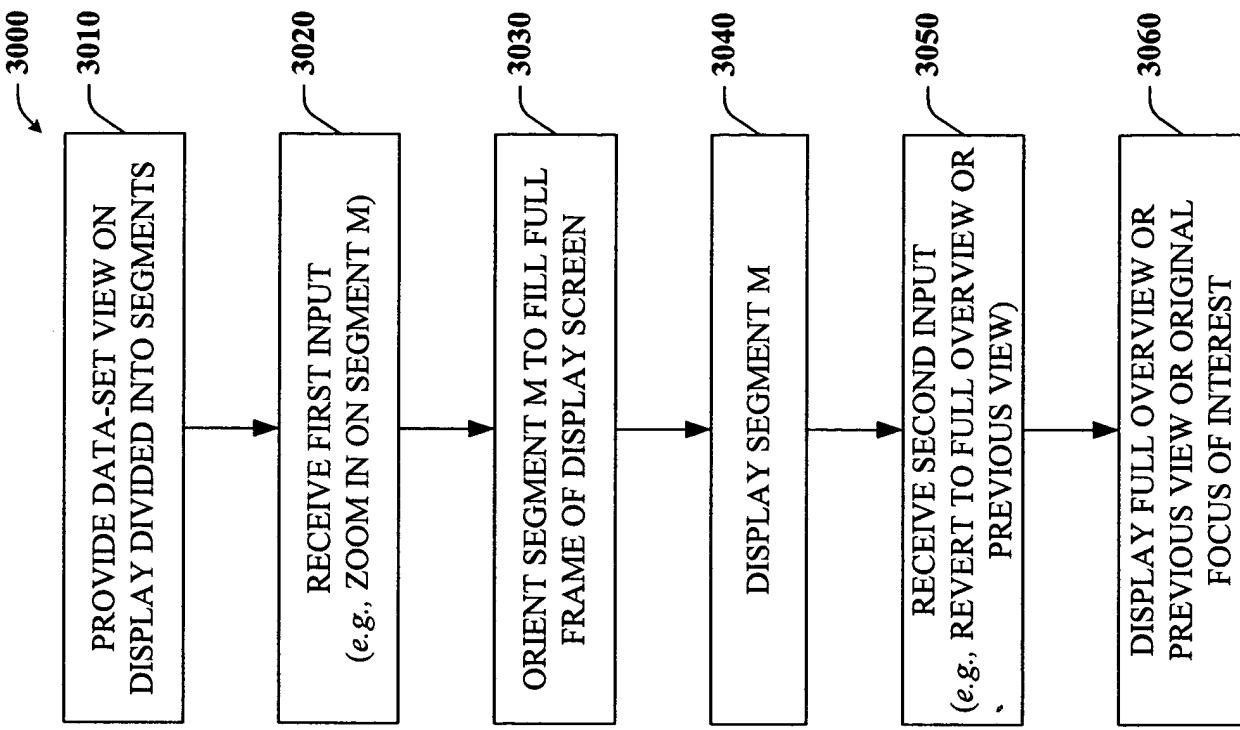


FIG. 29

FIG. 30

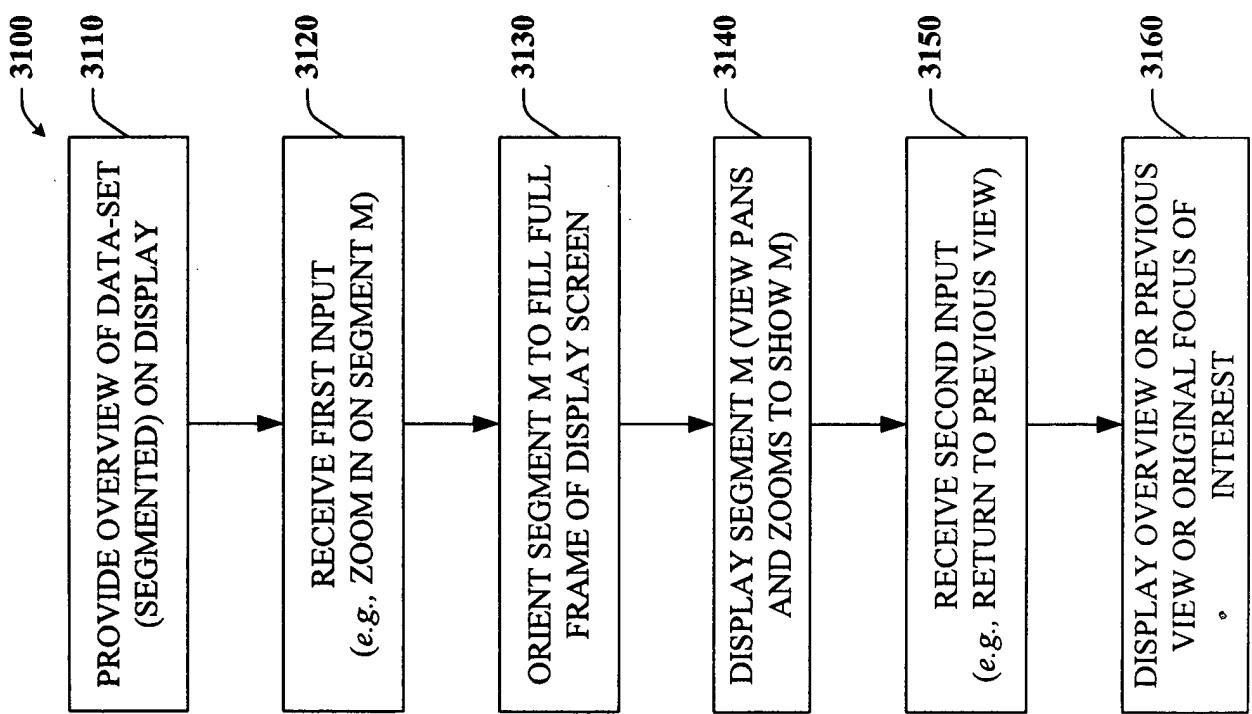
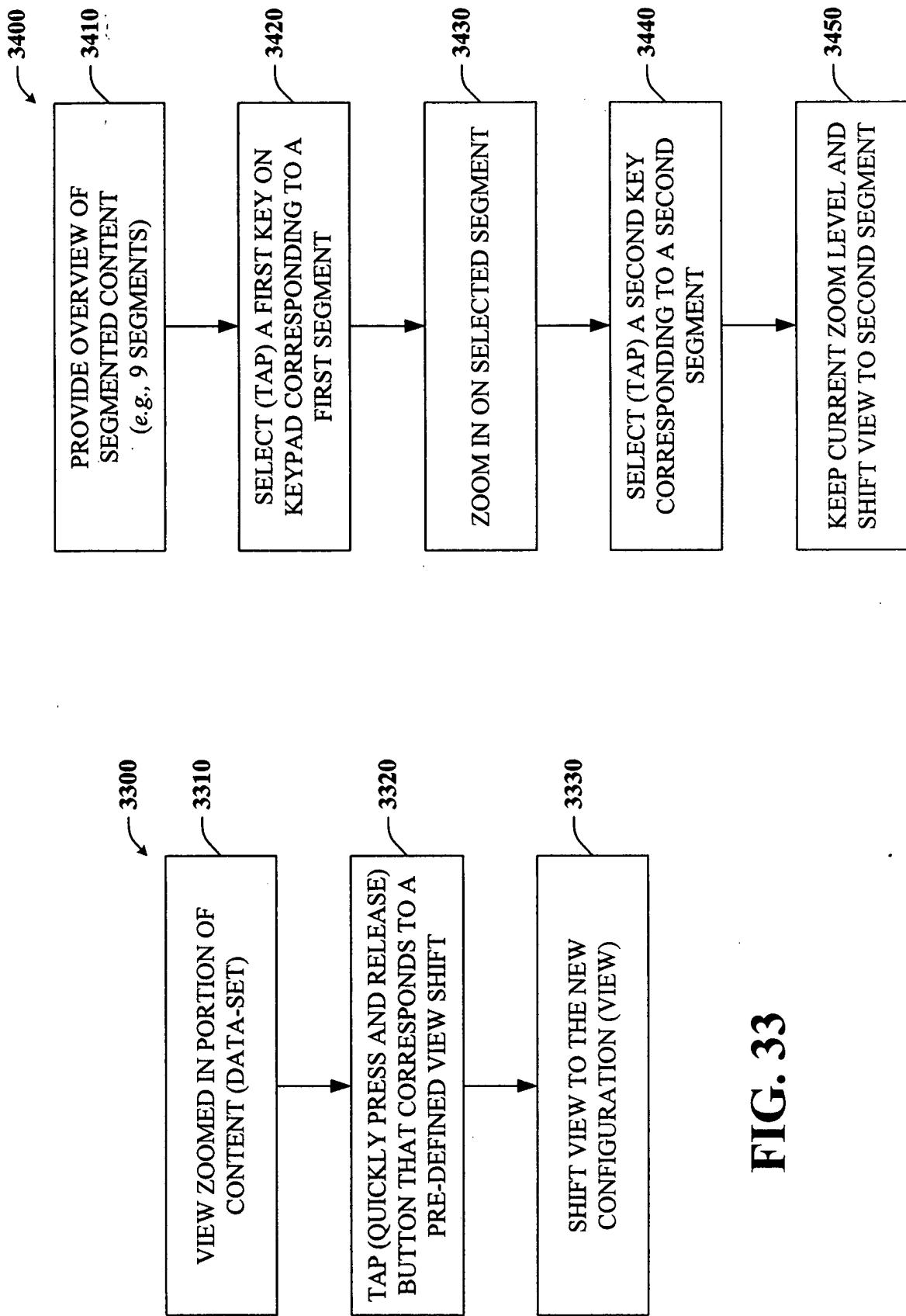


FIG. 31

FIG. 32



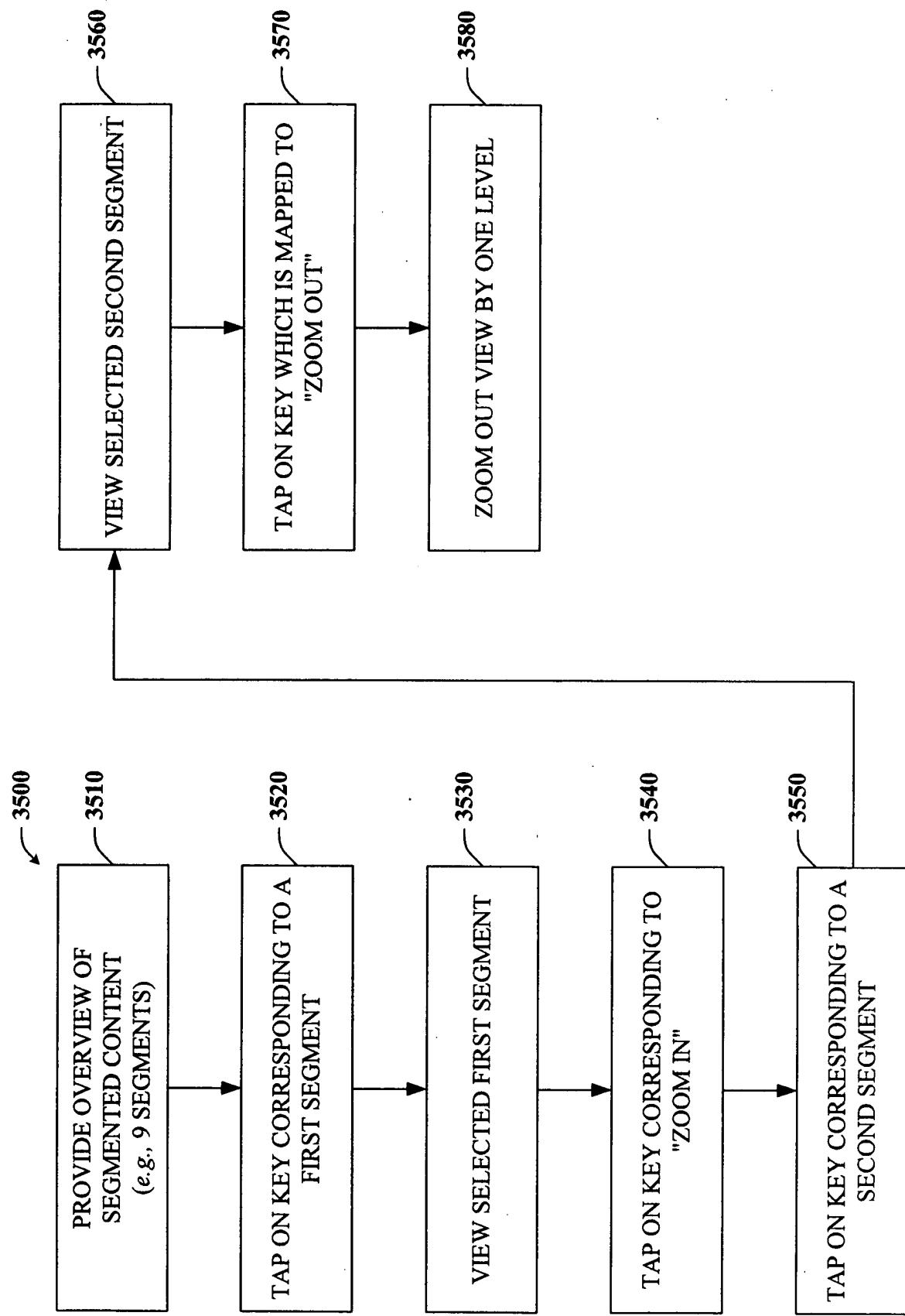


FIG. 35

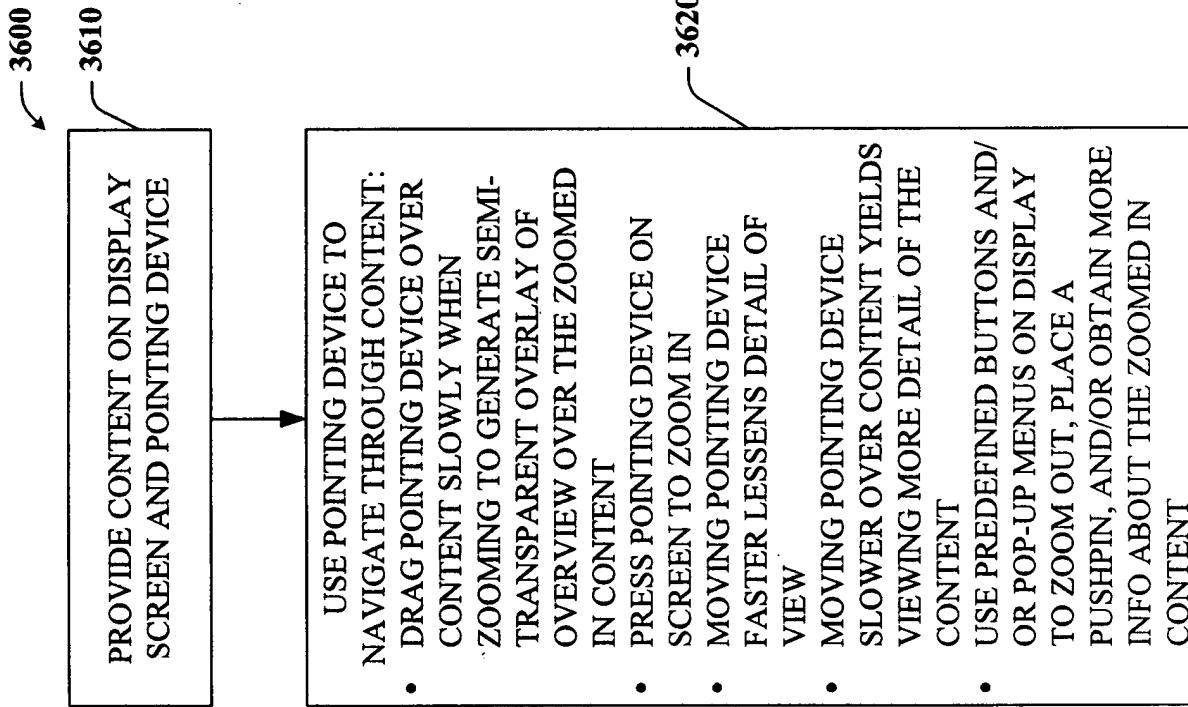


FIG. 36

EXEMPLARY LOGIC FOR SMALL DEVICE KEY-PRESS ACTIVATED RECURSIVE VIEW NAVIGATION (ZONEZOOM)

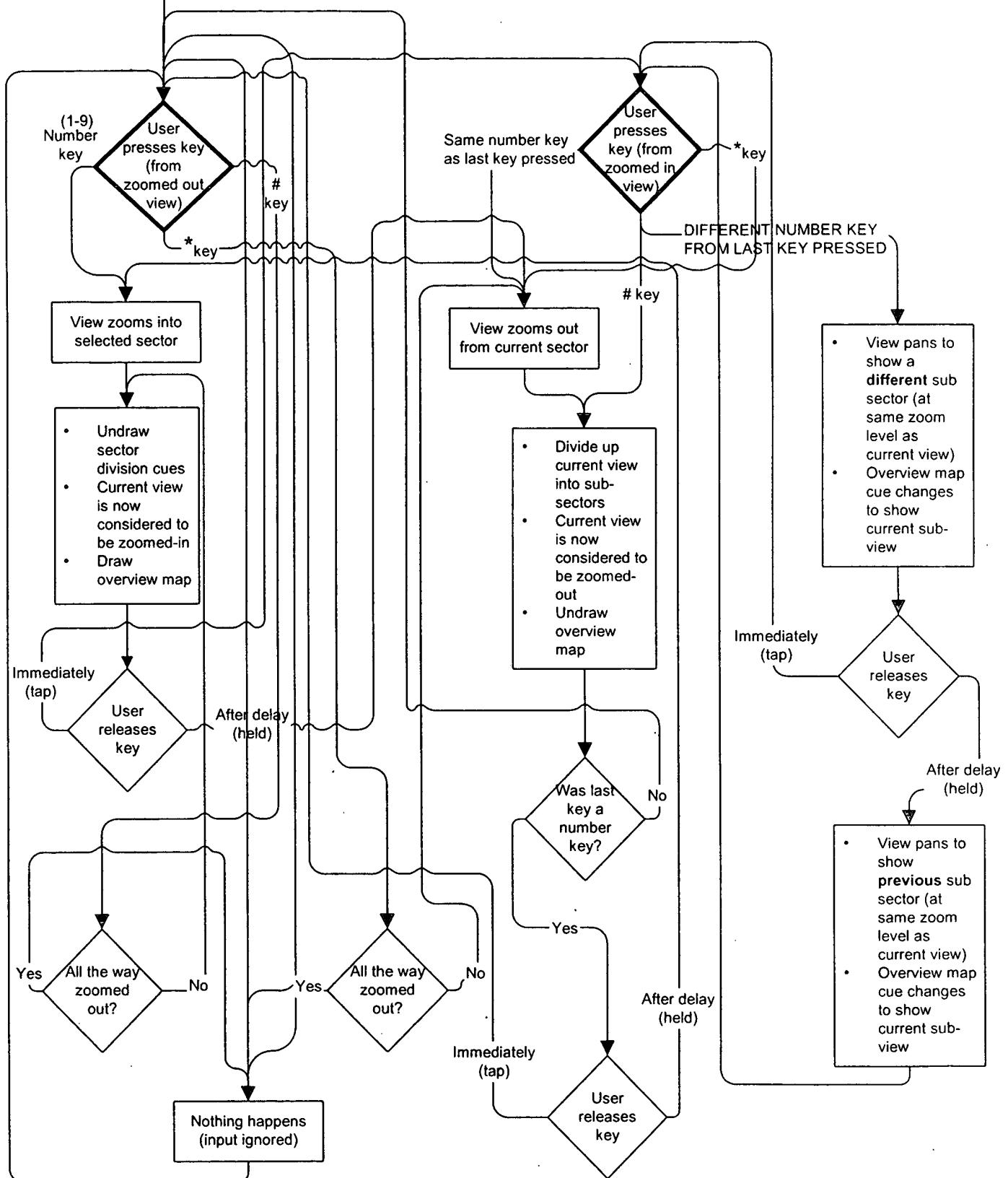


FIG. 37

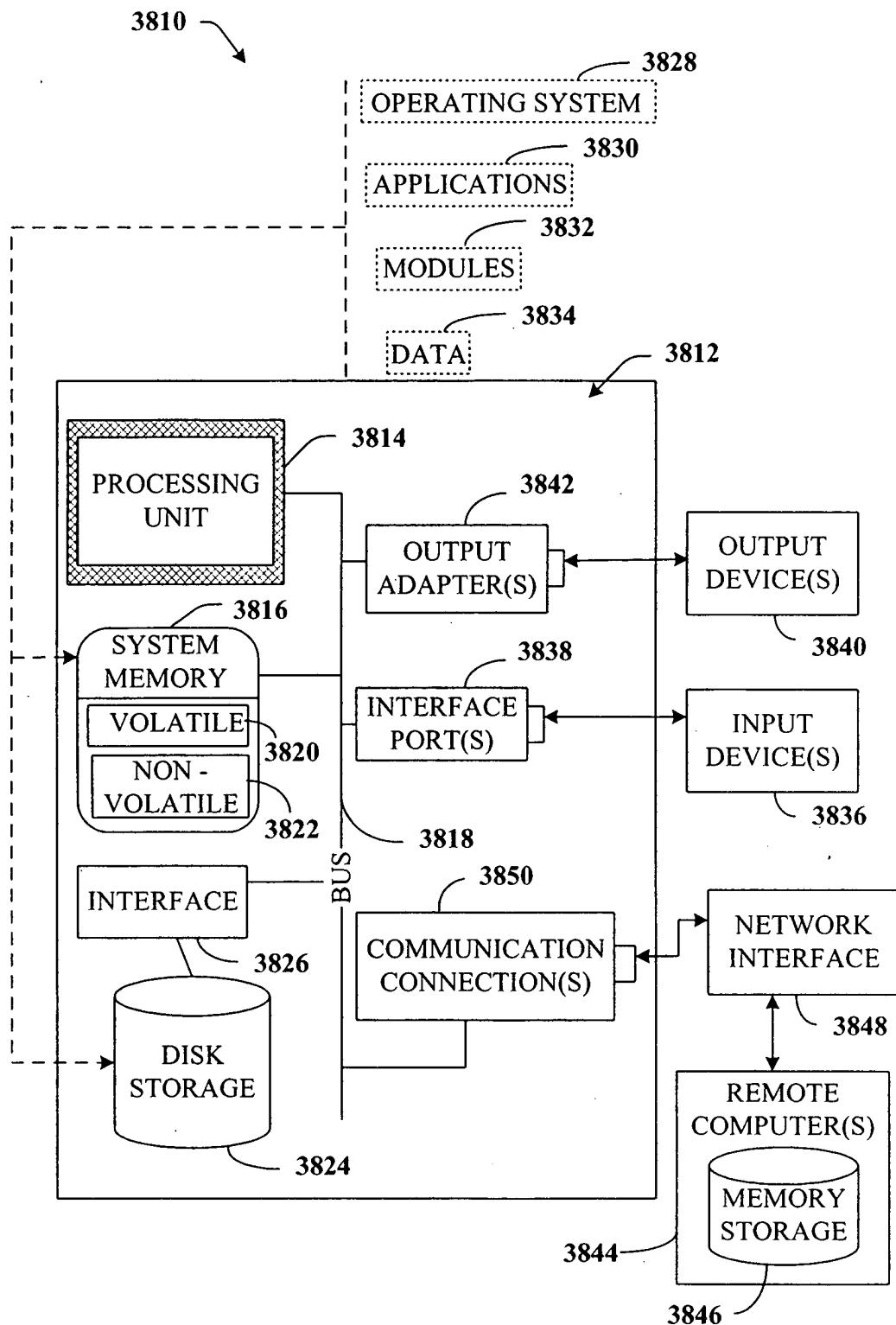


FIG. 38